



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,540	02/19/2002	David Randall Yee	19111.0063	1670

23517 7590 04/11/2005

SWIDLER BERLIN LLP
3000 K STREET, NW
BOX IP
WASHINGTON, DC 20007

EXAMINER

CHANNAVAJALA, SRIRAMA T

ART UNIT	PAPER NUMBER
----------	--------------

2166

DATE MAILED: 04/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/076,540	Applicant(s) YEE ET AL.	
	Examiner Srirama Channavajjala	Art Unit 2164	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 January 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

re

DETAILED ACTION

Response to office action

1. Examiner acknowledges applicant's amendment filed on 1/13/2005.
2. Claims 1,17,33 have been amended [1/13/2005].
3. Claims 1-42 pending in this application.

Drawings

4. The drawings filed on 2/19/2002 are acceptable for examination purpose

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-10, 17-21, 28-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bosworth et al., [hereafter Bosworth], in view of Barrett et al. [hereafter Barrett], US Patent No. 6549820

6. As to Claim 1, 17, Bosworth teaches a system which including 'receiving a query for data from a database application' [col 1, line 46-51], Bosworth is directed to constructing database queries, more specifically Bosworth teaches database engine is capable of retrieving data from database tables that corresponds to receiving query for data;

'issuing the received query to a database management system' [col 1, line 50-53];

'receiving a response to the query from the database management system, the response indicating a result dataset' [col 1, line 54-59, col 2, line 35-38], Bosworth specifically teaches in response to issued query, data from the table or tables is retrieved that corresponds to result dataset;

'creating or updating a database table that is suitable for trend analysis' [col 5, line 23-30, col 8, line 27-38], Bosworth specifically teaches updating database table for example as detailed in fig 8;

'populating or updating the database table with data from the result dataset' [col 8, line 26-28, line 40-47], Bosworth specifically teaches update query promotes user to specify how to update the selected data item or column from database table as detailed in fig 8.

It is however, noted that Bosworth does not specifically teach "database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis", although Bosworth specifically teaches adding, displaying database tables, and querying database [see Bosworth: col 4, line 46-54]. On the other hand, Barrett disclosed 'database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis' [col 11, line 27-33, col 13, line 62-67, col 14, line 1-14, fig 9A-9C, fig 11A], Barrett teaches capturing data records, more specifically QA data records, querying, and displaying trend analysis especially fig 9A, element 284, 286; fig 11A, element 394, 396.

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barrett et al. into constructing database queries using a field selection grid of Bosworth et al. because, both Bosworth and Barrett are directed to capturing data or creating database to store records, using querying, updating data records [see Bosworth: col 4, line 36-45; Barrett: col 10, line 58-67, fig 9A], and both teach graphical user interface where user has ability to edit or update, add additional tables, and both are from same field of endeavor.

One of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barrett et al. into constructing database queries using a field selection grid of Bosworth et al. because that would have allowed users of

Art Unit: 2164

Bosworth to select specific records from various data tables to track specific trend, more specifically collection of historic statistics, analyzing trends using tracking system features that including displaying trend analysis [see Barrett: fig 9A-9C, fig 11A], bringing the advantages of selectively deriving information, generating trend analysis reports, storing historical trends , thus improving the quality tracking system data applicable in all fields of science including manufacturing, software, hardware, production and like [col 5, line 17-36].

7. As to Claim 2, 7,18, 34, 39, most of the limitations of this claim have been noted in the rejection of Claim 1 above. In addition, with respect to the claimed feature Bosworth disclosed 'analyzing a format of the result dataset' [col 9, line 4-6], Bosworth specifically suggests data is presented in a spreadsheet as detailed in fig 10, also see fig 25-23 that corresponds to specific format; 'creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset' [col 4, line 60-64].

8. As to claim 3,8,19, 35,40 most of the limitations of this claim have been noted in the rejection of Claim 1 above. In addition, with respect to the claimed feature Bosworth disclosed 'updating the database table with data from the result dataset' [col 5, line 23-30, col 8, line 27-38], On the other hand Barrett disclosed 'timestamp information' [see fig 21,23-25], Barrett specifically teaches trend 2: select query contains various

Art Unit: 2164

attributes that including date, Barrett date attribute corresponds to timestamp information.

9. As to Claim 4,9,20,36,41, most of the limitations of this claim have been noted in the rejection of Claim 3,35 above. In addition, with respect to the claimed feature Barrett disclosed 'for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information' [see fig 10, fig 21, fig 23-25], in each fig, Barrett specifically teaches a database table with various attributes that including timestamp information.

10. As to Claim 5,10,21,37,42, most of the limitations of this claim have been noted in the rejection of Claim 2,34 above. In addition, with respect to the claimed feature Bosworth disclosed 'determining whether the result data table includes all rows of data in the result dataset' [col 6, line 25-30], spreadsheet format is detailed in fig 15-18;

'retrieving all rows in the result dataset, if the result data table does not include all rows in the result dataset' [col 6, line 18-22];

On the other hand, Barrett teaches 'for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information' [see fig 10, fig 21, fig 23-25], in each fig, Barrett specifically teaches a database table with various attributes that including timestamp information.

Art Unit: 2164

11. As to Claim 6, 38, most of the limitations of this claim have been noted in the rejection of Claim 1 above. In addition, with respect to the claimed feature Bosworth disclosed 'determining whether the result dataset is to be captured for trend analysis' [col 7, line 13-22]; 'wherein the creating or updating step comprises the step of creating or updating a database table that is suitable for trend analysis, if the result dataset is to be captured for trend analysis' [col 7, line 18-26].

12. As to Claim 28, Bosworth teaches a system which including 'a database operable to store and retrieve data' [col 4, line 23-25, line 36-40], Bosworth specifically teaches database organized into various tables and stored in memory [see col 4, line 23-25], further, Bosworth teaches user interface to receive user request to execute query or retrieve data from database as detailed in col 4, line 36-40;

'a database application operable to utilize the database' [col 3, line 1-9];

'receiving a query for data from a database application' [col 1, line 46-51],

Bosworth is directed to constructing database queries, more specifically Bosworth teaches database engine is capable of retrieving data from database tables that corresponds to receiving query for data;

'issuing the received query to a database management system'

[col 1, line 50-53];

'receiving a response to the query from the database management system, the response indicating a result dataset' [col 1, line 54-59, col 2, line 35-38], Bosworth

specifically teaches in response to issued query, data from the table or tables is retrieved that corresponds to result dataset;

'creating or updating a database table that is suitable for trend analysis' [col 5, line 23-30, col 8, line 27-38], Bosworth specifically teaches updating database table for example as detailed in fig 8;

'populating or updating the database table with data from the result dataset' [col 8, line 26-28, line 40-47], Bosworth specifically teaches update query promotes user to specify how to update the selected data item or column from database table as detailed in fig 8.

It is however, noted that Bosworth does not specifically teach 'a trendable database connectivity layer', "database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis', although Bosworth specifically teaches adding, displaying database tables, and querying database [see Bosworth: col 4, line 46-54]. On the other hand, Barrett disclosed 'trendable database connectivity layer' [see col 8, line 21-24, col 9, line 2-5], 'database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis' [col 11, line 27-33, col 13, line 62-67, col 14, line 1-14, fig 9A-9C, fig 11A], Barrett teaches capturing data records, more specifically QA data records, querying , and displaying trend analysis especially fig 9A, element 284, 286; fig 11A, element 394, element 396.

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barrett et al. into constructing database queries using a field selection grid of Bosworth et al. because, both Bosworth and Barrett are directed to capturing data or creating database to store records, using querying, updating data records [see Bosworth: col 4, line 36-45; Barrett: col 10, line 58-67, fig 9A], and both teach graphical user interface where user has ability to edit or update, add additional tables, and both are from same field of endeavor.

One of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barrett et al. into constructing database queries using a field selection grid of Bosworth et al. because that would have allowed users of Bosworth to select specific records from various data tables to track specific trend, more specifically collection of historic statistics, analyzing trends using tracking system features that including displaying trend analysis [see Barrett: fig 9A-9C, fig 11A], bringing the advantages of selectively deriving information, generating trend analysis reports, storing historical trends , thus improving the quality tracking system data applicable in all fields of science including manufacturing, software, hardware, production and like [col 5, line 17-36].

13. As to Claim 29, most of the limitations of this claim have been noted in the rejection of Claim 28 above. In addition, with respect to the claimed feature both Bosworth, Barrett disclosed 'analyzing a format of the result dataset' [Bosworth: col 9, line 4-6], Bosworth specifically suggests data is presented in a spreadsheet format as detailed in fig 10, also see fig 25-23 that corresponds to specific format; Barrett: [see fig 21-24], Barrett specifically teaches, data records collected in a table for query ; 'creating the database table based on the format of the result dataset or updating an existing database table based on the format of the result dataset' [Bosworth :col 4, line 60-64; Barrett:: col 21, line 12-26, fig 21-24].

14. As to Claim 30, most of the limitations of this claim have been noted in the rejection of Claim 29, above. In addition, with respect to the claimed feature Barrett disclosed 'populating or updating the database table with data from the result dataset and with timestamp information' [fig 21-24, col 21, line 1-6], Barrett specifically teaches data records are in the table format for searching or querying using complex filters, further part trend2: select query teaches one of the field is date that corresponds to timestamp.

15. As to Claim 31, most of the limitations of this claim have been noted in the rejection of Claim 29 above. In addition, with respect to the claimed feature Barrett disclosed 'for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information' [see fig 21,23-

Art Unit: 2164

24], Barrett specifically teaches populating data that including date field as detailed in fig 21, fig 23-24.

16. As to Claim 32, most of the limitations of this claim have been noted in the rejection of Claim 29 above. In addition, with respect to the claimed feature Barrett disclosed 'determining whether the result data table includes all rows of data in the result dataset' [see fig 21-25]; 'retrieving all row in the result dataset, if the result data table does not include all rows in the result dataset' [col 13, line 45-47]; 'for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information' [fig 21-25].

17. As to Claim 33, Bosworth teaches a system which including 'receiving a query for data from a database application' [col 1, line 46-51], Bosworth is directed to constructing database queries, more specifically Bosworth teaches database engine is capable of retrieving data from database tables that corresponds to receiving query for data;

'issuing the received query to a database management system' [col 1, line 50-53];

'receiving a response to the query from the database management system, the response indicating a result dataset' [col 1, line 54-59, col 2, line 35-38], Bosworth specifically teaches in response to issued query, data from the table or tables is retrieved that corresponds to result dataset;

'creating or updating a database table that is suitable for trend analysis, if the database table does not already exist' [col 5, line 23-30, col 7, line 41-45, col 8, line 27-38], removing selected records that meets the condition specified in a query corresponds to updating or creating data records;

"populating or updating the database table with data from the result dataset" [col 8, line 26-28, line 40-47], Bosworth specifically teaches update query prompts user to specify how to update the selected data item or column from database table as detailed in fig 8.

It is however, noted that Bosworth does not specifically teach "database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis", although Bosworth specifically teaches adding, displaying database tables, and querying database [see Bosworth: col 4, line 46-54]. On the other hand, Barrett disclosed 'database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis'[col 11, line 27-33, col 13, line 62-67, col 14, line 1-14, fig 9A-9C, fig 11A], Barrett teaches capturing data records, more specifically QA data records, querying , and displaying trend analysis especially fig 9A, element 284, 286; fig 11A, element 394, 396.

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barrett et al. into constructing database queries using a field selection grid of Bosworth et al. because, both Bosworth

Art Unit: 2164

and Barrett are directed to capturing data or creating database to store records, using querying, updating data records [see Bosworth: col 4, line 36-45; Barrett: col 10, line 58-67, fig 9A], and both teach graphical user interface where user has ability to edit or update, add additional tables, and both are from same field of endeavor.

One of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barrett et al. into constructing database queries using a field selection grid of Bosworth et al. because that would have allowed users of Bosworth to select specific records from various data tables to track specific trend, more specifically collection of historic statistics, analyzing trends using tracking system features that including displaying trend analysis [see Barrett: fig 9A-9C, fig 11A], bringing the advantages of selectively deriving information, generating trend analysis reports, storing historical trends , thus improving the quality tracking system data applicable in all fields of science including manufacturing, software, hardware, production and like [col 5, line 17-36].

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

18. Claim 11-16,22-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Rosensteel, Jr. [hereafter, Rosensteel], US Patent No. 6363391.

19. As to Claim 11, Rosensteel teaches a system which including 'a database connectivity layer component operable to provide an interface between a database application and a database' [see Abstract], Rosensteel specifically teaches open database connectivity or ODBC;

'a cover layer between the database connectivity layer component and the database application operable to capture and implement invocations by the database application of functions included in database connectivity layer component that may involve trend analysis [col 3, line 28-33, col 4, line 16-31], but pass through to the database connectivity layer component invocations by the database application of functions that do not involve trend analysis' [fig 1, col 1, line 56-67, col 2, line 55-67, col 3, line 1-7], Rosensteel specifically teaches ODBC server component through API that enables to access to information received from ODBC server, further it is noted that Rosensteel also teaches users of the distributed data warehouse system can

monitor usage for tracking statistics about different types of queries [see col 3, line 1-7], therefore, as best understood by the examiner, Rosensteel specifically teaches not only gathering data, monitoring usage of the data, but also tracking statistics about different types of queries coming from specific individual system users [col 3, line 1-7] that corresponds to trend analysis.

20. As to Claim 12, 23, most of the limitations of this claim have been noted in the rejection of Claim 11, 22 above. In addition, with respect to the claimed feature Rosensteel disclosed 'receiving a query for data from a database application' [col 6, line 9-11]; 'issuing the received query to a database management system' [see col 6, line 22-26]; 'receiving a response to the query from the database management system, the response indicating a result dataset' [col 6, line 44-49]; 'determining whether the result dataset is to be captured for trend analysis' [col 6, line 58-67]; 'if the result dataset is to be captured for trend analysis: creating or updating a database table that is suitable for trend analysis' [col 7, line 1-10]; 'populating or updating the database table with data from the result dataset' [fig 2, 200-2, 200-3].

21. As to Claim 13, 24, most of the limitations of this claim have been noted in the rejection of Claim 12, 23, above. In addition, with respect to the claimed feature Rosensteel disclosed 'analyzing a format of the result dataset' [col 6, line 18-32], 'creating the database table based on the format of the result dataset or updating an existing database table on the format of the result dataset' [col 6, line 35-39].

22. As to Claim 14, 25, most of the limitations of this claim have been noted in the rejection of Claim 12, 23, above. In addition, with respect to the claimed feature Rosensteel disclosed 'populating or updating the database table with data from the result dataset and with timestamp information' [col 6, line 35-39, fig 200-2, 200-3].

23. As to Claim 15, 26, most of the limitations of this claim have been noted in the rejection of Claim 24 above. In addition, with respect to the claimed feature Rosensteel disclosed 'for each row of data in the result data table, populating or updating a row in the database table with the row of data and with timestamp information' [col 6, line 53-61].

24. As to Claim 16, 27, most of the limitations of this claim have been noted in the rejection of Claim 12, 24 above. In addition, with respect to the claimed feature Rosensteel disclosed 'determining whether the result data table includes all rows of data in the result dataset' [col 5, line 45-51]; 'retrieving all row in the result dataset, if the result data table does not include all rows in the result dataset' [col 5, line 52-60]; 'for each row of data in the result data set, populating or updating a row in the database table with the row of data and with timestamp information' [col 6, 35-39, 62-67].

25. As to Claim 22, Rosensteel teaches a system which including 'a database operable to store and retrieve data' [col 3, line 7-14]; 'a database application operable to utilize the database' col 3, line 20-27]; 'a database connectivity layer operable to provide an interface between the database application and the database '[see fig 1];

'a database connectivity layer component operable to provide an interface between a database application and a database' [see Abstract], Rosensteel specifically teaches open database connectivity or ODBC;

'a cover layer between the database connectivity layer component and the database application operable to capture and implement invocations by the database application of functions included in database connectivity layer component that may involve trend analysis [col 4, line 16-31], but pass through to the database connectivity layer component invocations by the database application of functions that do not involve trend analysis' [fig 1, col 1, line 56-67, col 2, line 55-67], Rosensteel specifically teaches ODBC server component through API that enables to access to information received from ODBC server

Response to Arguments

26. Applicant's arguments filed on 1/13/2005 with respect to Claims 1-42 have been fully considered but they are not persuasive, for examiner's response, see discussion below:

a) At page 18, claims 1-2,6-7,17-18,33-34,38-39, applicant argues that Bosworth provides no disclosure or suggestion of trend analysis or of any use or type of trend analysis'.

As to the above argument [a], Bosworth is directed to constructing database queries, more specifically creating basic database with columns, rows, defining various fields [see fig 1A], typically each row contains a field for each of our columns and further defining column names and like [see col 1, line 36-44], it is also noted that Bosworth teaches selecting, retrieving data from database i.e., querying database [col 4, line 36-45]. It is however, noted that Bosworth does not specifically teach "database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis', although Bosworth specifically teaches adding, displaying database tables, and querying database [see Bosworth: col 4, line 46-54]. On the other hand, Barrett disclosed 'database table comprising information upon which trend analysis is to be performed and information that is generated in order to perform the trend analysis' [col 11, line 27-33, col 13, line 62-67, col 14, line 1-14, fig 9A-9C, fig 11A], Barrett teaches capturing data records, more

Art Unit: 2164

specifically QA data records, querying , and displaying trend analysis especially fig 9A, element 284, 286; fig 11A, element 394, 396.

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barrett et al. into constructing database queries using a field selection grid of Bosworth et al. because, both Bosworth and Barrett are directed to capturing data or creating database to store records, using querying, updating data records [see Bosworth: col 4, line 36-45; Barrett: col 10, line 58-67, fig 9A], and both teach graphical user interface where user has ability to edit or update, add additional tables, and both are from same field of endeavor.

One of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barrett et al. into constructing database queries using a field selection grid of Bosworth et al. because that would have allowed users of Bosworth to select specific records from various data tables to track specific trend, more specifically collection of historic statistics, analyzing trends using tracking system features that including displaying trend analysis [see Barrett: fig 9A-9C, fig 11A], bringing the advantages of selectively deriving information, generating trend analysis reports, storing historical trends , thus improving the quality tracking system data applicable in all fields of science including manufacturing, software, hardware, production and like [col 5, line 17-36].

Art Unit: 2164

Examiner applies above arguments to claims 2,6-7,18,34,38-39, which depend from claim 1.

b) At page 19, claims 11-16,22-27, applicant argues that Rosensteel discloses standard components of such a system but does not disclose or suggest trend analysis or any relation of trend analysis to the disclosed API.

As to the above argument [b], Rosensteel is directed to interface for monitoring data warehouse activity, more specifically, defining a standard interface between applications and data sources that effectively provides monitoring and administering data warehouse system [see col 2, line 55-67], Rosensteel also teaches users of the distributed data warehouse system can monitor usage for tracking statistics about different types of queries [see col 3, line 1-7], therefore, as best understood by the examiner, Rosensteel specifically teaches not only gathering data, monitoring usage of the data, but also tracking statistics about different types of queries coming from specific individual system users [col 3, line 1-7] that corresponds to trend analysis.

Examiner applies above claim 11 arguments to dependent claims 12-16,23-27.

Art Unit: 2164

c) At page 20, claims 3-5,8-10,19-21,35-37,40-42, applicant argues that neither Bosworth nor Yoshimura discloses or suggests trend analysis or any use or type of trend analysis.

As to the above argument [c], although Bosworth does not specifically teach "timestamp information", examiner noted in the previous office action that Yoshimura teaches "timestamp information" as detailed in fig 1, element 154, further examiner also notes that Yoshimura teaches not only database table containing various attributes, but, also specifically teaches updated timestamp attribute as detailed in fig 1, element 160 that indicates data freshness.

Since applicant amended independent claims 1, 7,28,33, these independent claims 1, 7,28,33 rejected under 35 U.S.C. 103(a) as being unpatentable over Bosworth et al in view of Barrett et al. US Patent No. 6549820, that including dependent claims 2-10,18-21,29-32,34-42 as detailed above.

Conclusion

The prior art made of record

- | | | |
|----|---------------|--------------|
| a. | US Patent No. | 5619688 |
| b. | US Patent No | 2001/0051939 |
| c. | US Patent No. | 6363391 |
| d. | US Patent No. | 6549820 |

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popvici, can be reached on 571-272-4083. The fax phone numbers for the organization where the application or proceeding is assigned is 703/872-9306

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

SC
Patent Examiner.
April 5, 2005.



SRIRAMA CHANNAVAJJALA
PRIMARY EXAMINER